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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Franklin C. Wong	Group Art Unit: 1618
Serial No.: 10/724, 027	Examiner: D. L. Jones
Filed: November 26, 2003	Atty. Dkt. No.: AND541/4-10US/64000
For: RADIOPHARMACEUTICALS AND RADIOACTIVE MICROSPHERES FOR LOCOREGIONAL ABLATION OF ABNORMAL TISSUES	Confirmation No. 7270

DECLARATION OF DAVID J. YANG

I, DAVID J. YANG, Ph.D., HEREBY DECLARE AS FOLLOWS:

1. I am an Associate Professor at the Department of Experimental Diagnostic Imaging in UT M.D. Anderson Cancer Center ("M.D. Anderson"), one of six health institutions of The University of Texas System, which is the assignee of the above-referenced patent application.

2. Before I became an Assistant Professor at M.D. Anderson, I had my PhD training in Pharmaceutical Chemistry at University of Louisiana (Monroe, Louisiana) and postdoctoral training in Pharmacology and Radiochemistry at Marshall University School of Medicine (Huntington, West Virginia) and University of Michigan (Ann Arbor, Michigan). I am an expert in the fields of drug delivery and development, and I have extensive experience with molecular imaging technology in drug development. I have worked in the fields of Nuclear Medicine for 20 years.

3. My expertise in the areas of molecular imaging technology in drug development is evidenced by the fact that I have:

(i) authored approximately 89 scientific articles;

(ii) 234 presentations and abstracts at scientific meetings;

(iii) Memberships in various organizations; Society of Nuclear Medicine, American Chemical Society, American Association for Cancer Research, American Association for Cancer Research; and

(iv) edited/authored 22 Book Chapters and listed inventor on 44 patents.

Further evidence of my expertise in these areas can be found in my curriculum vitae, a copy of which is attached hereto as Exhibit A.

4. I have reviewed the claims pending in U.S. Serial No. 10/724,027, and understand that the broadest claim of this application is as follows:

> 1. A radiopharmaceutical macroaggregate composition for the treatment of abnormal tissue comprising particles having a minimum size of one micron, wherein the particles comprise a coprecipitate of a metal and one or more radioactive isotopes, and have sufficient radioactivity for locoregional ablation of cells in the abnormal tissue.

5. It is my understanding that the Examiner has rejected certain claims in U.S. Serial No. 10/724,027 in a first Office Action dated December 29, 2005 ("Action"), and maintained the rejections in a final Office Action dated August 14, 2006 ("Final Action"). I have reviewed both the Action and Final Action. I also have reviewed the response filed by the Applicant to the Action on May 1, 2006.

6. It is my understanding that the Examiner argues that "it would have been obvious to one of ordinary skill in the art at the time the invention was made to generate a radiopharmaceutical composition having particles comprising a metal and one or more radioactive isotopes because Brodack et al discloses radionuclide labeled particles that meet the limitations of the instant invention... . Thus, one would be motivated to select the various components and specific elements of Applicant's elected species because the species components are each disclosed in the listings of Brodack et al." Action, p. 3.

7. In response, Applicant amended the claims to clarify that the claimed particles comprise a coprecipitate of a metal and one or more radioactive isotopes. In addition, the Applicant argued that Brodack et al. (U.S. Patent No. 5,560,901) does not disclose particles comprising a coprecipitate of a metal and one or more radioactive isotopes, and teaches away from such particles. The Final Action found this argument was unpersuasive, in part because the Final Action asserts that a "'precipitate' is small particles that have settled out of a liquid or gaseous suspension by gravity, or that result from a chemical reaction."

8. I strongly disagree with the Examiner's statement that a "precipitate" is small particles "that result from a chemical reaction." This definition is too broad, and suggests that any small particles resulting from a chemical reaction can be referred to as a precipitate. This is not the definition of "precipitate" as generally understood by scientists.

9. I have reviewed and analyzed the disclosure of Brodack et al. In my opinion, Brodack et al. does not disclose particles comprising a coprecipitate of a metal and one or more radioactive isotopes, and nowhere does Brodack et al. suggest producing a coprecipitate of a metal and one or more radioactive isotopes.

10. I am surprised, after reviewing Applicant's disclosure, that the coprecipitation of a metal with one or more radioactive isotopes can concentrate the radioactive isotopes up to 100 fold in the particles generated. These coprecipitates are formed by alkalinization of soluble metal and radioactive isotope(s) to an appropriate pH to separate a coprecipitate of the metal and isotope(s) from the solution. This method is very different than the methods of preparation disclosed in Brodack. In addition, the resulting coprecipitates are different than the compositions disclosed in Brodack, in which the molecules themselves are manipulated to generate the disclosed compositions, for example by the activation of multiple organic moeities. Brodack et al., at col. 5, ll. 30-45. Importantly, the concentration of the radioactive isotopes generated according to Applicant's disclosure allows for the production of therapeutic radiopharmaceutical macroaggregate compositions in sufficiently small volumes for practical use. I would not have expected this result after reviewing Brodack et al.

11. In addition, Brodack et al. states that the particles of its disclosure are preferably "not prone to aggregation under the conditions used to prepare or store the radiation synovectomy agent." *Id.* at col. 3, ll. 7-10. In contrast, the pending claims are directed to radiopharmaceutical macroaggregate compositions, i.e., compositions formed by aggregation. The methods for preparing radionuclide labeled particles disclosed in Brodack et al. are not prepared by aggregation, which again distinguishes the disclosure of Brodack et al. from the Applicant's pending claims.

12. All statements made in this Declaration of my own knowledge are true and all statements made in this Declaration on information and belief are believed to be true, and these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both under 18 U.S.C. § 1001 and may jeopardize the validity of this application or any patent issuing thereon.

10/13/2006 — Date

David J. Yang — David J. Yang, Ph.D.

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Revised: 10/13/06

Exhibit A
CURRICULUM VITAE

NAME: DAVID J. YANG, Ph.D.

TITLE/AFFILIATION:

(a) Primary Appointment:
Associate Professor
Associate Chemist
Director of Pharmaceutical Development
Department of Experimental Diagnostic Imaging
Division of Diagnostic Imaging
University of Texas M.D. Anderson Cancer Center

(b) Joint/Adjunct Appointment:
Associate Professor
University of Houston School of Pharmacy

Associate Professor
University of Texas Graduate School of Biomedical Sciences
Houston, TX

BIRTHDATE/PLACE: October 26, 1953, Taiwan

CITIZENSHIP: U.S. Citizen

HOME ADDRESS:
1123 Spinnaker Way
Sugarland, Texas 77478
TELEPHONE: 281-491-4175

OFFICE ADDRESS,
The University of Texas
M. D. Anderson Cancer Center
Department of Experimental Diagnostic Imaging
Room #R6.2130, Box 59
1515 Holcombe Boulevard,
Houston, Texas 77030
e-mail: dyang@di.mdacc.tmc.edu
TELEPHONE: 713-794-1053
FAX: 713-794-5456

MARITAL STATUS: Married

LICENSURES-ACTIVE:
Pharmacist, License #05227, awarded in 1978,
Taiwan, Republic of China

EDUCATION:

GRADUATE:
Northeast Louisiana University, Ph.D.
Medicinal Chemistry,
September, 1978-May, 1983, Monroe, LA

UNDERGRADUATE:
Taipei Medical College, B.S.
Pharmacy
September, 1974-June, 1978, Taipei, Taiwan

POSTGRADUATE TRAINING:

Postdoctoral Fellow,Department of Pharmacology,
Marshall University School of Medicine,
Supervisor: Gary O. Rankin, Ph.D.
1983-1985, Huntington, WV

SPECIALITY BOARDS: None

MILITARY/GOVERNMENT: None

ACADEMIC & PROFESSIONAL APPOINTMENTS:

Associate Professor (tenured) & Associate Chemist
Director of Pharmaceutical Development
Department of Experimental Diagnostic Imaging
Division of Diagnostic Imaging
University of Texas M. D. Anderson Cancer Center
(2004-present)

Associate Professor (tenured) & Associate Chemist
Director of Pharmaceutical Development
Department of Nuclear Medicine
Division of Diagnostic Imaging
University of Texas M. D. Anderson Cancer Center
(1994-2004)

Assistant Professor and Assistant Chemist
Department of Nuclear Medicine
Division of Diagnostic Imaging
University of Texas M. D. Anderson Cancer Center,
(1988-1994)

Assistant Professor
University of Texas Graduate School of Biomedical Sciences, Houston, TX (1990-1994)

Research Investigator
Department of Internal Medicine
Cyclotron/PET Facility
University of Michigan
Ann Arbor, MI (1987-1988)

Assistant Director, Senior Research and Management Pharmacology Division
Panlabs Taiwan, Ltd.
(subsidiary company of Panlabs Inc., Seattle, WA)
Taipei, Taiwan
(January, 1986-December, 1986)

Postdoctoral Fellow
Department of Pharmacology

Marshall University School of Medicine
Huntington, WV (1983-1985)
Teaching Assistant
Northeast Louisiana University School of Pharmacy
Monroe, LA (1980-1983)

Research Assistant
Northeast Louisiana University School of Pharmacy
Monroe, LA (1978-1980)

English Tutor
Taipei Chien-Kuo Supplementary Senior High School
Taipei, Taiwan (1975-1978)

Pharmacist
Jen-Ai Hospital
Taipei, Taiwan
(1977-1978)

a) Consultantships

Sumitomo Heavy Industries
Tokyo, Japan
(September 1, 1999-Present)

Anzai Medical Company
Tokyo, Japan
(January 1, 1997-Present)

Nihon Medi-Physics Pharmaceutical Company
Tokyo, Japan
(July 1, 1996-August, 1998)

ADMINISTRATIVE APPOINTMENTS AND RESPONSIBILITIES:

Director of Radiopharmaceutical Development
Department of Nuclear Medicine
Division of Diagnostic Imaging
(1994-present)

COMMITTEE MEMBERSHIPS:

a) M.D. Anderson Committee Memberships/Chairmanships:

Member of Isotope Committee
The University of Texas MD Anderson Cancer Center
September, 1995-August, 1998.

Study Section Review Committee

Basic Research Projects
Intstitutional Research Grants Program
The University of Texas M.D. Anderson Cancer Center
September , 2000-August, 2003

Member of Radioactive Drug Reseaech Committee
The University of Texas MD Anderson Cancer Center
September, 2002-2004.

Member, UT M.D. Anderson Associates, 1989-present

Member, Institutional Biosafety Committee 2004-present

Member, Institutional NMR core facility Advisory Committee, 2005-present.

Faculty Senate, UT M.D. Anderson Cancer Center, 2005-2008

b) Society Memberships with Offices held:

Member, American Association for Cancer Research, 1991-Present

Member, M. D. Anderson Associates, 1989-Present

Member, Society of Nuclear Medicine, 1988-Present

Member, American Association for the Advancement of Science, 1987-Present

Member, American Association of Pharmaceutical Scientists, 1986-Present

Full Member, Sigma Xi Fraternity,
Marshall University, Huntington, WV. 1984-Present

Member, Pharmacy Rho Chi Society Northeast Louisiana University,
Monroe, LA., 1982-Present

Member, American Chemical Society, 1982-Present.

EDITORSHIPS AND EDITORIAL BOARD MEMBERSHIPS:

Journal Reviewer:

Reviewer for Journal of Pharmaceutical Sciences.
(William Higuchi,Ph.D. Bradly Anderson, Ph.D.
Editor-in-Chief). March 1, 1997- Present

Advisory Editorial Board for Annals of Nuclear Medicine & Sciences
(Ren-Shyan Liu, M.D., Editor-in-Chief).

July 1, 1996- Present.

Advisory Editorial Board member, *Recent Patents on Anti-Cancer Drug Discovery,* 2005-present

Reviewer for Nutrition Research
(Ranjit Kumar Chandra, M.D. Editor-in-Chief).
January 1996- Present.

Advisory Editorial Board member, *Annals of Nuclear Medicine,* 2004-present

Annual meeting abstract reviwer for *Journal of Nuclear Medicine,* 1999-present

HONORS AND AWARDS:

Society of Nuclear Medicine, Certificate of Merit, Honorable Mention. Award-winning scientific exhibit "New Autosynthetic Device for Production of Radiopharmaceuticals."
June 1-15, 44th Annual Meeting, San Antonio, TX (1997).

Award for Distinguished Young Investigators of the 6th Asia and Oceania Congress of Nuclear Medicine and Biology, Kyoto, Japan (1996).

Honorary Citizen of City of Monroe, LA (1982).

Honorary Citizen of City of West Monroe, LA (1982).

President of Chinese Student Association Northeast Louisiana University, Monroe, LA (1979-1981).

Vice President of International Student Association Northeast Louisiana University, Monroe, LA (1979-1980).

Award for Distinguished Young Investigator, 6th Asia and Oceania Congress of Nuclear Medicine and Biology, 1996

Certificate of Merit, Honorable Mention award winning scientific exhibit, "New Autosynthetic Device for Production of Radiopharmaceuticals", from the Society of Nuclear Medicine, 1997

Award for 14th Annual Winfield Evans Lecture at the the 49th Annual Meeting of Southwestern Chapter of the Society of Nuclear Medicine, Austin, TX (April 3, 2004)

Award for 8th Asia Oceania Congress of Nuclear Medicine and Biology, Special Lecture on New Radiopharmaceuticals Beyond FDG, Beijing, China (October 11, 2004)

LECTURESHIPS AND VISITING PROFESSORSHIPS:

Visiting Professor
Taipei Veteran General Hospital
National PET/Cyclotron Center
Taipei, Taiwan
(Aug. 1992; Aug. 1993; Aug. 1994)

Visiting Professor
Dubai Hospital
Dubai, UAE
(Dec. 1997)

ORGANIZATION OF NATIONAL OR INTERNATIONAL CONFERENCES

National:

Co-Chairman, The 12th Annual Radiation Workshop, Advances in Imaging-Guided Diagnosis and Therapy, Round Top, Texas, 4/2004.

Co-organizer of Refresher Course: "Novel Tracers for Imaging", 90th Annual meeting of the Radiological Society of North America, Chicago, IL, AMA 1 credit,11/2004.

International:

Chair of Plenary Sessions: Molecular Targeted Imaging in Oncology
Scientific Program Committee:
The IVth International Congress of Nuclear Oncology &
The VIIth Asia and Ociania Congress of Nuclear Medicine and Biology,
Istanbul, Turkey (Octobet 1-5, 2000)

PATENTS PENDING AND GRANTED:

1. Yang DJ, Wallace S. High affinity halogenated tamoxifen derivatives and uses thereof. U.S. Patent #5,219,548 (UTMDACC:225), 6/15/93.

2. Yang DJ, Wallace M, Wallace S. Efficient microcapsules preparation and method of use. U.S. Patent #5,238,714 . (UTMDACC:178), 8/24/93.

3. Yang DJ, Wallace M, Li C, Kuang L-R, Wallace S. Therapeutic and diagnostic use of modified polymeric microcapsules. European patent #93918214.3-2114 (UTMDACC:283), 1993.

4. Yang DJ, Wallace S. High affinity halogenated tamoxifen derivatives and uses thereof. U.S. Patent #5,192,525 (UTMDACC:189, 3/9/93.

5. Yang DJ, Wallace M, Li C, Kuang L-R, Wallace S. Therapeutic and diagnostic use of modified polymeric microcapsules. Japanese patent #504566(UTMDACC:283), 1994.

6. Yang DJ, Wallace S. High affinity halogenated-tamoxifen derivatives and uses thereof. European Patent #0551434 (UTMDACC:189), 11/15/95.

7. Yang DJ, Wallace S. High affinity halogenated tamoxifen derivatives and uses thereof. Canadian Patent #2,092,996. (UTMDACC:189), 1995.

8. Yang DJ, Wallace S. High affinity halogenated tamoxifen derivatives and uses thereof. Japanese Patent #518057/91. (UTMDACC:189), 1995.

9. Li C, Wallace S, Kan Z, Yang DJ, Kuang L-R. Particulate contrast media derived from non-ionic water soluble contrast agents for CT enhancement of hepatic tumors. U.S. patent S/N 08,225665. (Filed 4/11/94)(UTMDACC:006RA), 1995.

10. Yang DJ, Wallace M, Wallace S. Efficient microcapsules preparation and method of use. European patent #92901967.7-2104. (UTMDACC:243). 6/21/95

11. Yang DJ, Wallace M, Wallace S. Efficient microcapsules preparation and method of use. Australian patent #659622. (UTMDACC:243), 9/12/95.

12. Yang DJ, Wallace M, Wallace S. Efficient microcapsules preparation and method of use. Canadian patent #2,092,551 (UTMDACC:243), 1995.

13. Yang DJ, Wallace M, Wallace S. Efficient microcapsules preparation and method of use. Japanese patent #501033/92 (UTMDACC:243), 1995.

14. Yang DJ, Wallace M, Li C, Kuang L-R, Wallace S. Therapeutic and diagnostic use of modified polymeric microcapsules. Australian patent #47743/93. (UTMDACC:283), 1996.

15. Yang DJ, Wallace M, Li C, Kuang L-R, Wallace S. Therapeutic and diagnostic use of modified polymeric microcapsules. US Patent #5,484,584 (UTMDACC:283), 1/16/96.

16. Yang DJ, Wallace S. High affinity halogenated tamoxifen derivatives and uses thereof. Australian Patent #664161 (UTMDACC:189), 2/27/96.

17. Yang DJ, Wallace M, Li C, Kuang L-R, Wallace S. Therapeutic and diagnostic use of modified polymeric microcapsules. Canadian patent #2,140,333, (UTMDACC:283), 3/28/96.

18. Li C, Wallace S, Kan Z, Yang DJ, Kuang L-R. Particulate contrast media derived from non-ionic water soluble contrast agents for CT enhancement of hepatic tumors. U.S. Patent number 5,686,061, 1997

19. Wallace S, Yang DJ, Cherif A. 2'-Nitro-1'-imidazolyl-2,3-isopropylidene-4-tosylbutanol, a precursor to ^{18}F-fluoroerythronitroimidazole PET imaging agent. U.S. Patent 5,728,843. (UTMDACC:415PCT), awarded 3/17/98.

20. Li C, Wallace S, Yu D-F, Yang DJ. Water-soluble paclitaxel prodrugs. U.S. patent #5,977,163. (IDR95:051) Awarded 11/2/99.

21. Yang DJ, Cherif A, Wallace S. Rapid synthesis and use of ^{18}F-fluoromisonidazole and analogs. US Patent No. 5,886,190. (UTMDACC:352), awarded 3/23/99.

22. Wallace S, Yang DJ, Delpassand ES, Cherif A, Quadri S. High affinity tamoxifen derivatives. Development of ^{111}In-DTPA-TX conjugate as new imaging kit for ER(+) lesions.. U.S. Patent No. 6,096,874. (UTMDACC: 439), awarded 8/1/2000.

23. Li C, Wallace S, Yu D-F, Yang DJ. Water soluble paclitaxel prodrugs. U.S. Patent number 6,262,107 (July 17, 2001)

24. Li C, Wallace S, Yu D-F, Yang DJ. Water soluble paclitaxel derivatives. U.S. Patent number 6,441,025 (August 27, 2002)

25. Li C, Wallace S, Yu D-F, Yang DJ. Water soluble paclitaxel derivatives. U.S. Patent number 6,515,017 (February 4, 2003)

26. Li C, Wallace S, Yu D-F, Yang DJ. Water soluble paclitaxel derivatives. U.S. Patent number 6,730,699 (May 4, 2004)

27. Tanaka A, Inoue T, Katsumi T, Yang DJ, Kim EE. Imaging agents, precursors thereof and methods of manufacture. (MDA01-034) US Patent 6,824,760, (11/30/2004).

28. Yang DJ, Yu D-F, Azhdarinia A, Lee T, Kim EE.: Local regional chemotherapy and radiotherapy using in situ hydrogel , U.S. patent (UTXC:681USP1/10025519, MDA01-007), U.S. Patent number 7,008,633 (March 7, 2006).

29. Yang DJ, Yu D-F, Oh C-S, Bryant J. Ethylenedicysteine (EC)-Drug Conjugates Compositions and Methods for Tissue Specific Disease Imaging, U.S. patent S/N 60/424,493. UTMDACC:02-073 (UTXC:758USP1), 9/18/2002 filed, US Patent (pending) 2003.

30. Yang DJ, Yu D-F, Kim EE. Ethylenedicysteine (EC)-Drug Conjugates Compositions and Methods for Tissue Specific Disease Imaging, US patent S/N 10/672,763, UTXC:664/USC1, 6/21/2000 filed, U.S. Patent number 7,067,111 (June 27, 2006).

31. Yang DJ, Yu D-F, Kim EE. Ethylenedicysteine (EC)-Drug Conjugates Compositions and Methods for Tissue Specific Disease Imaging, US patent S/N 10/672,142. UTXC:664/USC2, 6/21/2000 filed, U.S. Patent (Pending) 2003.

32. Yang DJ, Liu C-W, Yu D-F, Kim EE. Ethylenedicysteine (EC)-Drug Conjugates Compositions and Methods for Tissue Specific Disease Imaging, U.S. patent S/N 09/434,313. UTMDACC:627, 10/25/99 filed (MDA99-040); US Patent number 6,692,724 (2/17/2004).

33. Yang DJ, Oh C-S, Kohanim S, Yu D-F, Azhdarinia A, Stephens S. Mechanism–based targeted pancreatic beta cell imaging and therapy (MDA03-059) U.S. Patent (Pending) 2004.

34. Chao CKS, Yang DJ, Yang J-H, Yu D-F, Azhdarinia A. Multipurpose automated radiotracer synthesizer (MARS):manufacturing and use (MDA03-044, UTSC795) U.S. Patent (Pending) 2004.

35. Yang DJ, Oh C-S, Kohanim S, Yu D-F, Azhdarinia A, Kim EE. Poly(peptide) as a chelator: methods of manufacture and uses (MDA03-026) U.S. Patent (Pending) 2004.

36. Chao CKS, Yang DJ, Mourtada F. System and methods for an automated synthesis of Gallium-68 Generator-Based Radiopharmaceutical Agents.. (MDA04-016) U.S. provisional Patent 60/538191, 2004.

37. Yang DJ, Oh C-S, Kohanim S, Yu D-F, Azhdarinia A. Tetraazacyclopentadecane (N4)-sugar conjugates, compositions and methods for cellular imaging and therapy (MDA04-034), UTSC 870. U.S. Patent U.S. Patent serial #60/745,148 (pending), 2004.

38. Yang DJ, Yu D-F, Chanda M, Azhdarinia A, Oh C-S, Kim EE. Oligosaccharide conjugates for dual imaging and radio/chemotherapy: composition, manufacturing and applications (MDA04-110)

(UTSC:900USP1)U.S. Patent (pending), 2004..

39. Yang DJ, Yu D-F, Wei I-C. Glycopeptide: Compositions and Methods of Manufacturing and Biomaterial Applications (MDA04-063) U.S. Patent (pending), 2004.

40. Yang DJ, Gelovani J, Oh C-S, Azhdarinia A, Mendez R. Efficient synthesis of 5-[^{18}F]fluoropropoxy tryptophan: composition, manufacturing and use. (MDA05-105) 2005 (submitted).

41. Li C, Wallace S, Yu D-F, Yang DJ. Water soluble paclitaxel derivatives. US Patent number 6,884,817 (April 26, 2005).

42. Yang DJ, Yu D-F. Platinum-polysaccharide conjugates: compositions, manufacturing and methods for cancer therapy MDA05-120 (UTSC:945PSC), US patent pending.

43. Yang DJ, Kurzrock R, Kohanim S, Gong J. Prediction of Therapeutic Response for Anti-Tyrosine Kinases Using Theranostic Antiphosphotyrosine Antibody: Composition, Manufacturing and Use. MDA06-088, May, 2006 US patent pending.

44. Mourtada F, Azhdarinia A, Yang DJ, Oh C-S. Automated System for Formulating Radiopharmaceuticals," U.S. Provisional Pat. Application SN 60/822,306 (MDA-06-081) AND541/4-29PROUS/48010

GRANT/CONTRACT SUPPORT:

Completed Grants

Evaluation of automated synthesis apparatus (LS 99-355). P.I.: **Yang, DJ.** Supported by Sumitomo Heavy Industries (Tokyo, Japan), September 1, 1999-August 31, 2003, $40,000

Evaluation of formulation of natural products for prostate cancer therapy (LS98-044), P.I.: **Yang, D.J.,** Contractor: Hande Technology and Development Company (Houston, TX), August, 1998-August, 2002, $200,000.

Evaluation of anticancer drugs. P.I.: **Yang, DJ.,** Supported by Pioneer Pharmaceutical Research Corporation (San Francisco, CA) August 1998-present, $250,000 (donation).

Development of I-125 labeled seeds for brachytherapy of prostate cancer., P.I.: **Yang, DJ.,** Contractor: International Isotope Incorporation (Denton, TX), February, 1998- Sept. 1999, $81,250.

Transfusion of Platelets from Platelet Concentrates Stored at 4°C with ThromboSol^{TM} to Healthy Volunteers, P.I.: Benjamin Lichtiger, M.D., Collaborator, **Yang, DJ.,** Contractor: Life Cell Corporation, . December, 1997-Present, $28,000.

Evaluation of new imaging ligands for nuclear medicine, P.I.: **Yang, DJ.** Supported by Nihon Medi-Physics (Tokyo, Japan), August, 1997-1998, $20,000.

Single Photon Emission Computed Tomography Using [^{123}I] Iodotamoxifen to Evaluate Therapeutic Responses in Patients with Breast Cancer. P.I.: **Yang, DJ.** Awarded Breast Cancer Research Program, UT M. D. Anderson Cancer Center, January, 1997-1998, $20,000,

Targeted Nonviral Gene Delivery System. P.I.: Nichol, C.A.; Co-investigator, **Yang, DJ.** Awarded Biomedical Research Support Grant, January, 1997-1998, $15,000.

Nonviral Gene Therapy Using New Polymers and Targeting Agents. P.I.: Nichol, C.A.; Co-investigator, **Yang, DJ.** Awarded Radiological Society of North America 1996 Seed Grant, March, 1997-March, 1998, $19,990.

Ultrasound-guided percutaneous intratumoral injection of cisplatin microspheres in VX-2 tumor-bearing rabbits. P.I.: Kuang, L-R; Co-investigator, **Yang, DJ.** Awarded RSNA Seed Grant, December, 1995- November, 1996, $19,950.

Biodegradable polydepsipeptide labeled with Gd-DTPA as a functional contrast agent for MR Imaging. P.I. Li C.; Co-investigator: **Yang, DJ.** Awarded Basic Research Science Grant, January 1995-January 1996, $24,546.

Particulate Nonionic Contrast Material for Improved Detection of Hepatic Neoplasms by CT. P.I.: Li, C; Co-investigator **Yang, DJ.** Awarded Physicians Referral Service, July 1994-July 1996, $28,967,

Synthesis and Evaluation of New Misonidazole Analogue for Tumor Hypoxia. P.I.: Cherif, A.; Co-investigator, **Yang, DJ.** Awarded RSNA Seed Grant, December, 1994- November, 1995, $19,900.

Development of Long Circulating Biodegradable Radiopaque Microparticles as a Blood-pool Imaging Agent. P.I.: Li C; Co-investigator, **Yang, DJ.** Awarded RSNA Seed Grant, December, 1994- November, 1995, $19,650.

Tamoxifen Analogues for Breast Tumor Imaging and Therapy Applications. P.I.: **Yang, DJ.** Awarded from American Cancer Society, January, 1993- June, 1997, $310,000

Clinical Phase I Study of Tamoxifen Analogue in Breast Cancer Patients. P.I.: **Yang, DJ.** Awarded from Physician's Referral Service, January, 1993- December, 1994, $20,000.

Application of Microcapsules for Tumor Diagnosis and Therapy. Evaluation of Tamoxifen Analogs for Breast Tumor Imaging and Therapy. P.I.: Wallace, S. Collaborator; **Yang, DJ.,** supported by George & Cleo Cook Fund, 1988-1989, $100,000; 1990-1994, $500,000; 1995-1997, $300,000.

^{99m}Tc-EC-Endostatin: Imaging, Response and Prognosis, Entremed, Inc. (Boston, MA), Principal Investigator, **Yang, DJ.**,SR 00-248, 6/1/00-5/31/01, $63,950

Molecular Imaging with ^{99m}Tc-Peptide Conjugates, Daiichi Radioisotope Laboratories, Ltd., Tokyo, Japan, Principal Investigator, **Yang, DJ.**,SR01-253, 7/1/01-7/1/03, $125,000 ($75,000 year 1, $50,000 year 2)

Automation synthesis of PET tracers, Ho Kong Molecular Imaging Tech, Inc. (Taiwan), Principal Investigator, **Yang, DJ.**, SR01-351, 10/1/01-10/1/02, $50,000

PET tracers in oncology, Medics Japan, Ichibancho, Sendai, Japan, Principal Investigator, **Yang, DJ.**, LS01-197, 5/15/01-5/15/03, $40,000 ($20,000/year)

Evaluation of autosynthetic device for radiochemistry, Anzai Medical Company (Tokyo, Japan), Principal Investigator, **Yang, DJ.**, LS 97-022, 4/97-4/04, $70,000 ($10,000/year).

Comparison of Tc-99m-EC-deoxyglucose and FDG-PET Scans for the Identification of Persistent/Recurrent Squamous Cell Carcinoma of the Glottic Larynx After Definitive Treatment (ID01-415). Cell>Point Company (Houston, TX), Principal Investigator, Schechter, N., Collaborator **Yang, DJ.**, 11/13/2001 - 10/31/2003, $493,745.

CT and MRI functional agents develpoment and evaluation. VeriMed Research Company (Houston, TX). Principal Investigator, **Yang, DJ.,** (SR 2002-00007147SM, 5/31/02-5/31/05, $1,000,000

New imaging kit for assessment of estrogen receptors with Single Photon Emission Computed Tomography. US Army Breast Cancer Concept grant BC03298, PI. E. Edmund Kim, M.D., Collaborator **Yang, DJ.,** (5%), 9/04 – 8/05 Total direct costs $75,000

Biokinetics of MicellarPaclitaxel Formulation, Samyang Company (Seoul, Korea). Principal Investigator, **Yang, DJ.,** LS2004-00012233RM, 9/2004-8/2005, $90,575

Hypoxia Imaging-guided IMRT, NIH-NCI R01 CA89198-01 PI: K.S. Clifford Chao, M.D., Collaborator (5%), **Yang, DJ.,** 3/01 – 2/05 Total direct costs $501,000

Active Grants

Polymeric conjugates for disease targeting, HOPAX Chems, MFG, Co., Ltd., (Taiwan), Principal Investigator, **Yang, DJ.,** LS2003-00009724SP 01, 08/01/2003 - 02/01/2013, $500,000 ($50,000/year, total 10 years).

^{99m}Tc-Ethylenedicysteine (EC)-drug conjugates for tissue specific disease imaging, Cell>Point Biotechnology Company (Houston, TX). Principal Investigator, **Yang, DJ.,** LS01-212, 5/21/01-5/20/08, $1,400,000 ($200,000/year, total 7 years)

Local regional chemotherapy and radiotherapy using in situ hydrogel, Cell>Point Biotechnology Company (Houston, TX). Principal Investigator, **Yang, DJ.,** LF2003-00009935DH, 12/1/03-12/1/08, $250,000 ($50,000/year, total 5 years)

N4-technology for tumor targeted imaging and therapy, Cell>Point Biotechnology Company (Houston, TX). Principal Investigator, **Yang, DJ.,** LS2005-00012803PL, 3/1/2005-2/28/2010, $500,000 ($100,000/year, total 5 years)

Formulation of radiolabeled glycopeptide for PET and SPECT imaging (MDA04-063). HOPAX Chems, MFG, Co., Ltd. (Taiwan). Principal Investigator, **Yang, DJ.,** SR051-2825, September, 2004-August, 2006, $60,000 ($30,000/year)

Molecular Imaging with Peptide Conjugates (MDA03-026), TRS Company (Tokyo, Japan). Principal Investigator, **Yang, DJ.,** LS2005-00012824PL September, 2004-August, 2006, $60,000 ($30,000/year)

Oligosaccharide conjugates for dual imaging and radio/chemotherapy: composition, manufacturing and applications (MDA04-110) Cell Point Biotechnology Company (Houston, TX), Principal Investigator, **Yang, DJ.,** LS2005-00015155LE, 9/1/2005-8/31/2010, $400,000 ($80,000/year, total 5 years).

Anti-neoplastic effect of a novel platinum- complex on cisplatin-sensitive and resistant ovarian cancer in vitro and in vivo, MDACC IRG, Principal Investigator: Hu, W., Co-Principal Investigator: **Yang, DJ.,** 4/2005-4/2006, Direct cost: $49,400.

MR assessment of antiangiogenic therapy, NIH-NCI Project 4 of U54 grant CA90810-01 Principal Investigator, Abbruzzese JL, Collaborator (5%), **Yang, DJ.,** 7/01-12/06, Total direct costs (Project 4 only) $662,885

Principal Investigator: Gabriel N. Hortobagyi, M.D.; Co-P.I.-Mien-Chi Hung, Ph.D. Collaborator: David J. Yang, Ph.D. (5%) 1P50CA116199-01 Breast SPORE Project 5 "Targeting Breast Cancer-Specific Gene Therapy" Project Period: 9/01/2005-8/31/1010 The Direct Costs for Year 1 $225,956.

Grant Reviewer/Service on NIH/Other Study Sections:

1. Invited Speaker, Generator-Produced Agents for Molecular Targeted Imaging, at the Hypoxia Imaging Techniques Meeting (organized by National Cancer Institute), Arizona Golf Resort and Conference Center, Mesa, AZ, April 5-6, 2004.
2. NIH Scientific Review Special Emphasis Panel (Scientific Review Group ZRG1 DIG E-50S, Organized by Gopal C. Sharma, Ph.D., Chair: Ambitabh Chak, M.D. June 7, 2004.
3. NIH Scientific Review Special Emphasis Panel/Initial Review Group 2004/01 ZRG1 DIG-E (50S), Organized by Gopal C. Sharma, Ph.D., 10/28/2004.
4. NIH Scientific Review Special Emphasis Panel/Initial Review Group 2005/01 ZRG1 DIG-E (50S), Organized by Gopal C. Sharma, Ph.D., 2/23/2005.
5. NIH Scientific Review Special Emphasis Panel/Initial Review Group 2005/01 ZRG1 DIG-E (50S), Organized by Gopal C. Sharma, Ph.D., 6/10/2005.
6. NIH Scientific Review Special Emphasis Panel/Initial Review Group 2006/01 ZRG1 DIG-E (50S), Organized by Gopal C. Sharma, Ph.D., 3/7/2006.
7. NIH Scientific Review Special Emphasis Panel/Initial Review Group 2006/01 ZRG1 DIG-E (50S), Organized by Rass Shayiq, Ph.D. 6/28/2006

TEACHING

Formal Teaching: N/A

Courses Taught:

Instructor: Medicinal Chemistry, Northeast Louisiana University, Undergraduate level 1979- 1982.
Instructor: Toxicology, Marshall University School of Medicine, Graduate level, 1986-1987.
Instructor: Microcapsules, Theory and Medical Applications, School of Pharmacy, University of Houston, Undergraduate level, 4 semester hours, 2/1996.
Instructor: Cancer Therapy Using Microcapsules, G.S.B.S., Graduate level, 4 semester hours, 4/7-5/31/1998,
Instructor: Radionuclide Therapy, Nuclear Medicine Physics, G.S.B.S., 020193, 3 semester hours, 4/2000
Instructor: Non-imaging tests, Nuclear Medicine Physics, G.S.B.S., 020193, 3 semester hours, 4/2000
Instructor: Radionuclide Therapy. Introduction to Medical Physics IV, G.S.B.S., 020193, 3 semester hours, 3/2001.
Instructor: Radionuclide Therapy. Introduction to Medical Physics IV G.S.B.S., 020193, 3 semester hours, 4/2002.
Instructor: Radionuclide Therapy. Introduction to Medical Physics IV G.S.B.S., 020193, 3 semester hours, 4/2003.
Instructor: Mechanism-Based Targeted Cellular Imaging in Oncology, Pharmaceutical Engineering, Department of Bioengineering, Rice University, 3/2003
Instructor: Imaging molecular signatures by nuclear imaging modalities, undergraduate physiology, Department of Bioengineering, Rice University, 2/2005
Instructor: Image-guided targeting of molecular signature events, Pharmaceutical Engineering, Department of Bioengineering, Rice University, 3/2005

Training Programs:

Instructor: "How to make microcapsules," Washington University, St. Louis, MO, 9/1989.

"cGMP Training for the Biotechnology and Pharmaceutical Industries", Philadelphia, Pennsylvania, September 15-16, 2005. (Organized by SPI USA and University of Maryland , Baltimore, MD, www.usapi.com)

Other Educational Programs: N/A.

SUPERVISORY TEACHING

Advisory committees:

- Member, Dissertation Advisory Committee, Department of Radiation Physics, G.S.B.S., Eduardo Galiano, Ph.D. 6 hours, 1994.
- Member, Dissertation Advisory Committee, Department of Pharmacology, G.S.B.S., Virginia Wilson, Ph.D., 6 hours, 1994-1996.
- Member, Dissertation Advisory Committee, Department of Pharmacology, G.S.B.S., Saeed U. Kahn, Ph.D., 6 hours, 1996-1997.
- Member, Dissertation Advisory Committee, Department of Tumor Biology, G.S.B.S., Xiangming Xing, Ph.D., 6 hours, 1996-1997.
- Member, Thesis Advisory Committee, Department of Analytical Chemistry, G.S.B.S., John Koomen, 6 hours, 1997-1998.
- Member, Dissertation Advisory Committee, Department of Computer Science, University of Houston, Wei-Min Jeng, Ph.D., 6 hours, 1/1997-5/1999.

Supervisory Committees:

- Chair, Thesis Supervisory Committee, University of Houston School of Pharmacy, Adwoa Nornoo, 6 hours, 8/1994-9/1995.
- Chair, Thesis Supervisory Committee, University of Houston School of Pharmacy, Angela Joubert, 6 hours, 8/1994-9/1995.
- Chair, Thesis Supervisory Committee, G.S.B.S., Ali Azhdarinia, 6 hours, 1/2000-5/2001.
- Chair, Dissertation Supervisory Committee, G.S.B.S., Ali Azhdarinia, Ph.D. 6 hours, 7/2001-5/2005.
- Chair, Thesis Supervisory Committee, G.S.B.S., Richard Mendez, M.S. 6 hours, 9/2002-12/2004.

Direct Supervision:

Undergraduate Students and Allied Health Students:

- Mentor, UT M.D. Anderson, Kevin Chu (Texas A&M University, Department of Biology), summer student, 5/1991 – 8/1991.
- Mentor, UT M.D. Anderson, Sarah Nikiforow (Princeton University, Department of Chemical Engineering), summer student, 6/1991-8/1991.
- Mentor, UT M.D. Anderson, Tony Tsi, (University of Texas at Austin, Department of Biology), summer student, 6/1992-8/1992.
- Mentor, UT M.D. Anderson, Walter Lin, (Stanford University, Department of Biology), summer student, 6/1992-8/1992.
- Mentor, UT M.D. Anderson, Matthew Gretzer, (University of Colorado, Department of Biology), summer student, 6/1992-8/1992.
- Mentor, UT M.D. Anderson, Eddie Huang (Rice University, Department of Social Sciences), summer student, 6/1992-8/1993.
- Mentor, UT M.D. Anderson, David T. Chang, (University of Michigan), summer student, 6/1995-8/1995.
- Mentor, UT M.D. Anderson, Charleen Miguel, (University of Texas at Austin, Department of Biology), summer student, 6/1995-8/1995.
- Mentor, UT M.D. Anderson, Vince Kumar, (Franklin and Marshall College, Department of Biology, Lancaster, PA), summer student 6/1995-8/1995.
- Mentor, UT M.D. Anderson, Albert He, (University of Chicago, Department of Biology, Chicago, IL.), summer student, 6/1998-8/1998.
- Mentor, UT M.D. Anderson, Peng Wu, (Cornell University, Department of Biology, Ithaca, NY), summer student, 6/2000-8/2000.
- Mentor, UT M.D. Anderson, Jason Yang, (Stanford University, Department of Biology, Stanford, CA.), summer student, 6/2000-8/2000.

- Mentor, UT M.D. Anderson, Albert He, (University of Chicago, Department of Biology, Chicago, IL.), summer student, 6/2000-8/2000.
- Mentor, UT M.D. Anderson, Diane Kim, (Vanderbilt University, Department of Biology, Nashville, TN.), summer student, 6/2000-8/2000.
- Mentor, UT M.D. Anderson, Sahar Kohanim, (University of Chicago, Department of Biology, Chicago, IL), summer student, 6/2001-8/2001.
- Mentor, UT M.D. Anderson, Jonathen Huang, (Bellaire High School, Houston, TX), summer student, 6/2001-8/2001.
- Mentor, UT M.D. Anderson, Sahar Kohanim, (University of Chicago, Department of Biology, Chicago, IL), summer student, 6/2002-8/2002.
- Mentor, UT M.D. Anderson, Jonathen Huang, (Bellaire High School, Houston, TX), summer student, 6/2002-8/2002.
- Mentor, UT M.D. Anderson, Athena Hamidzadeh, (University of Houston, Department of Biology, Houston, TX), summer student, 6/2002-8/2002.
- Mentor, UT M.D. Anderson, Vincenzo K. Wong, (University of Texas at Austin, Department of Biology), summer student, 6/2003-8/2003.
- Mentor, UT M.D. Anderson, Allison Greenwell, (Duke University Department of Biomedical Engineering), summer student, 6/2004-8/2004.
- Mentor, UT M.D. Anderson, Sterlin Wei, (University of Texas at Austin, Department of Electrical Engineering), summer student, 6/2004-8/2004.
- Mentor, UT M.D. Anderson, Allison Greenwell, (Duke University Department of Biomedical Engineering), summer student, 6/2005-8/2005.
- Mentor, UT M.D. Anderson, Sterlin Wei, (University of Texas at Austin, Department of Electrical Engineering), summer student, 6/2005-8/2005.
- Mentor, UT M.D. Anderson, Jennifer Lai, (Rice University Department of Biology), summer student, 6/2005-8/2005.
- Mentor, UT M.D. Anderson, Torrant Yao, (University of Texas at Austin, Department of Pharmacy), summer student, 6/2005-8/2005.
- Mentor, UT M.D. Anderson, Jae Kim, (University of Texas at Austin Department of Chemistry), summer student, 6/2005-8/2005.
- Mentor, UT M.D. Anderson, Francis Ahn, (Boston University, Department of Biology), summer student, 6/2005-8/2005.
- Mentor, UT M.D. Anderson, Sterlin Wei, (University of Texas at Austin, Department of Electrical Engineering), summer student, 6/2006-8/2006.
- Mentor, UT M.D. Anderson, Andy Lee, (University of Virginia, Department of Chemistry), summer student, 6/2006-8/2006.
- Mentor, UT M.D. Anderson, Joyce Kuo, (Rice University, Department of Biology), summer student, 6/2006-8/2006.

Medical Students: N/A

Postdoctoral Research Fellows:

- UT M.D. Anderson, R.G. Moult, MD, Department of Diagnostic Radiology, RG Moult, MD, June, 6/1990-6/1991.
- Faculty, UT M.D. Anderson, Department of Diagnostic Radiology, Chun Li, PhD., 2/1991-2/1994.
- UT M.D. Anderson, Department of Diagnostic Radiology, L-R Kuang, MD., 2/1989- 6/1997.
- UT M.D. Anderson, Department of Diagnostic Radiology, Abdallah Cherif, PhD., 9/1992-8/1997.
- UT M.D. Anderson, Department of Diagnostic Radiology, Matthew Gretzer, 1/1993-8/1994.
- UT M.D. Anderson, Department of Nuclear Medicine, Tomio Inoue, MD., 6/1994-8/1995.
- UT M.D. Anderson, Department of Nuclear Medicine, Noboru Oriuchi, MD, 8/1995-4/1997.
- UT M.D. Anderson, Department of Nuclear Medicine, Tetsuya Higuchi, MD., 8/1997-12/1998.
- UT M.D. Anderson, Department of Nuclear Medicine, Seyfettin Ilgan, M.D., 9/1997-8/1998.

- UT M.D. Anderson, Department of Nuclear Medicine, Chang-Sok Oh, Ph.D. March, 3/1998-March, 3/1999.
- UT M.D. Anderson, Department of Nuclear Medicine, Kaoru Ozaki, Ph.D., 6/2001-3/2003.
- UT M.D. Anderson, Department of Nuclear Medicine, Masashi Yukihiro, M.D., 7/2001- 8/2002.
- UT M.D. Anderson, Department of Nuclear Medicine, Chang-Sok Oh, Ph.D., 8/2001-present.
- UT M.D. Anderson, Department of Nuclear Medicine, Megumi Ito, M.S., 4/2003- 9/2004.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Mithilesh Kumar, 4/2003 - 10/2003.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Ellis Shyue-Luen Chang, M.D., 2/2004-July 1, 7/2004.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Ho-Chun Song, M.D., 1/2004-February 11, 2/2004.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Alper Karacalioglu, M.D., 9/2004-August, 9/2005.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Takahashi Nobukazu, M.D., 9/2005-3/2006.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Hiroaki Kurihara, M.D. 4/2006-present.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Mithu Chanda, Ph.D., 4/2005-Present.
- UT M.D. Anderson, Department of Experimental Diagnostic Imaging, Ali Azhdarinia, 7/2005-8/2006.

PRESENTATIONS AT NATIONAL OR INTERNATIONAL CONFERENCES

Invited:

Invited Speaker, Potential breast tumor imaging agent: fluorotamoxifen and derivatives. International symposium on radiopharmaceutics synthesis, Quality Assurance and Regulatory Control, American Chemical Society Nuclear Chemistry and Technology Division, 200th Annual Meeting, Washington D.C., 8/1991.

Invited Speaker, Development of fluoro analog of tamoxifen for imaging estrogen receptors by PET, 47th Southwest Regional American Chemical Society Meeting, Medicinal Chemistry Division, Robert Lyle, Ph.D. Organizer, San Antonio, Texas, 10/1991

Invited Speaker, Tamoxifen analogs, microcapsules and tumor targeting, University of Texas Medical School, Department of Obstetrics, Gynecology and Reproductive Sciences. Houston, Texas, 9/1992

Invited Speaker, Application of cyclotron-produced isotopes in breast tumor imaging. 7th Annual Meeting of American Association of Pharmaceutical Scientists. San Antonio, Texas, 9/1992.

Invited Speaker, Receptor targeting with PET radiotracers for breast tumor imaging. 206th National Meeting of the American Chemical Society. Nuclear Chemistry and Technology. Chicago, IL, 8/1993.

Invited Speaker, CT liver enhancement with poly (d, l-lactide) microencapsulated contrast media. Contrast Media Research Conference, San Antonio, TX, 10/1993.

Invited Speaker, Positron Emission Tomography- Application in Oncology, School of Pharmacy, Northeast Louisiana University, Monroe, LA, 1/1994.

Invited Speaker, New Ligands for Tumor Targeting, School of Pharmacy, University of Houston, Houston, TX, 10/1994

Invited Speaker, PET and SPECT New Radioligands for Tumor Imaging and Therapy, Cook Imaging Corporation, Bloomington, Indiana, 10/1994

Invited Speaker, Cancer Diagnosis and Therapy with New Ligands, Department of Nuclear Medicine, Seoul National University Hospital, Seoul, Korea, 17, 1/1995

Invited Speaker, New Ligands for Tumor Diagnosis and Therapy, Department of Obstetrics & Gynecology, Taipei Medical College, Taipei, Taiwan, 1/1995

Invited Speaker, New Ligands for Cancer Diagnosis and Therapy, Department of Radiology, Fort Sam Houston, Brooke Army Medical Center, Texas, 1/1995

Invited Speaker, New Ligands for Cancer Imaging and Therapy Applications, National PET/Cyclotron Center, Taipei Veterans General Hospital, Taipei, Taiwan, 5/1995

Invited Speaker, New Ligands for Cancer Imaging and Therapy Applications, Atomic Energy Council, Lung-Tan, Taiwan, ROC, Institute of Nuclear Energy Research, Taiwan, 5/1995

Invited Speaker, New Ligands for Cancer Imaging and Therapy Applications, Department of Obstetrics & Gynecology, Taipei Medical College, Taipei, Taiwan, 5/1995

Invited Speaker, New Ligands for Cancer Imaging and Therapy Applications, Department of Nuclear Medicine, School of Medicine (Lecture at International Hotel, Tokyo, Japan, arranged by Dr. Endo), Gunma University, Maebashi, Japan, 5/1995

Invited Speaker, New Ligands for Cancer Imaging and Therapy Applications, Department of Nuclear Medicine, Seoul National University Hospital, Seoul, Korea, 5/1995

Invited Speaker, (1) New ligands for metabolic imaging in oncology; (2) Metabolic Imaging & Targeted Delivery of Anticancer Agents in Oncology, Atomic Energy Council, Lung-Tan, Taiwan, ROC, Institute of Nuclear Energy Research, Taiwan, 9/1996

Invited Speaker, (1) Biodegradable polymers for drug delivery; (2) New ligands for metabolic imaging in oncology; (3) Metabolic Imaging & Targeted Delivery of Anticancer Agents in Oncology, Department of Nuclear Medicine, National Cheng Kung University Hospital, Tainan, Taiwan, 9/1996

Invited Speaker, Metabolic Imaging & Targeted Delivery of Anticancer Agents in Oncology, National PET/Cyclotron Center, Taipei Veterans General Hospital, Taipei, Taiwan, 9/1996

Invited Speaker, Metabolic Imaging & Targeted Delivery of Anticancer Agents in Oncology, Department of Obstetrics & Gynecology, Taipei Medical College, Taipei, Taiwan, 9/1996

Invited Speaker, Metabolic Imaging & Targeted Delivery of Anticancer Agents in Oncology, Department of Nuclear Medicine, School of Medicine, Gunma University, Maebashi, Japan, 9/1996

Invited Speaker, Targeted Delivery of Anticancer Agents in Oncology, Department of Nuclear Medicine, Seoul National University Hospital, Seoul, Korea, 12/1996

Invited Speaker, Polymeric Drug Delivery in Oncology, Department of Nuclear Medicine, School of Medicine & Hospital, Wonkwang University, Iksan, Korea, 12/1996

Invited Speaker, Microencapsulation, Department of Nuclear Medicine, National ChengKung University Hospital, Tainan, Taiwan, 12/1996

Invited Speaker, Molecular Nuclear Medicine, Department of Nuclear Medicine, Dubai Hospital, Dubai, United Arab Emirates, 12/1997

Invited Speaker, Estrogen receptors as target for breast cancer imaging. American Cancer Society, The Schilling Research Conference, Santa Cruz, CA, 9/1997

Invited Speaker, Targeted molecular imaging in oncology. Taiwan Society of Nuclear Medicine, Taiwan, 11/2000

Invited Speaker, Targeted molecular imaging in oncology, Department of Obstetrics & Gynecology, Taipei Medical University, Taiwan, 11/2000

Invited Speaker, Radionuclide therapy, Institute of Nuclear Energy Research, Taipei, Taiwan, 11/2000

Invited Speaker, Tissue specific disease targeted imaging, Department of Nuclear Medicine, School of Medicine, Gunma University, Maebashi, Japan, 11/2000

Invited Speaker, Targeted molecular imaging in oncology, Daiichi Radioisotope Laboratories, Ltd., Tokyo, Japan, 11/2000

Invited Speaker, Targeted molecular imaging in oncology. Division of Nuclear Medicine, Tohoku University, Sendai, Japan, 12/2000

Invited Speaker, Nuclear imaging of apoptosis, 19th Annual Conference on Houston Conference on Biomedical Engineering Research, sponsored by Society for Engineering in Medicine and Biology, University of Houston Hilton Hotel, Houston, Texas, 2/2001.

Invited Speaker, Nuclear imaging of angiogenesis and apoptosis, Department of Nuclear Medicine, National ChengKung University Hospital, Tainan, Taiwan, 2/2001.

Invited Speaker, Targeted molecular imaging in lung cancer. Division of Radiation Oncology, 9th Radiation Workshop at Round Top, "New Horizons in the Treatment of Non-Small Cell Lung Cancer" Round Top, Texas, 3/2001.

Invited Speaker, Tumor vascular targeted imaging with radiolabeled antiangiogenic agents. On Categorical Seminar course title: "Angiogenesis: Basic Principles and Potential Opportunities", 48th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, 6/2001.

Invited Speaker, Angiogenesis, Institute of Nuclear Energy Research, Taipei, Taiwan, 3/2001.

Invited Speaker, Angiogenesis targets and nuclear imaging. 47th annual meeting of the Southwestern Chapter Society of Nuclear Medicine, Galveston, TX, 3/2002.

Invited Speaker, Lecture Title: "Mechanism-based cellular targeted imaging in oncology" (Organized by Anzai Medical Company, Tokyo, Japan), Shanghai Nuclear Medicine Physicians, Shanghai Hotel and Taiwan Society of Nuclear Medicine January Meeting, Taipei Veteran General Hospital, 1/2003

Invited Speaker, Molecular Chemistry and Target Assessment, Department of Nuclear Medicine, Yokohama University, Yokohama, Japan, 3/2003.

Invited Speaker, Future molecular imaging agents for diagnosis and treatment in oncology, 50th Annual Meeting of the Society of Nuclear Medicine, Philips Users' Meeting, New Orleans, LA, 6/2003.

Visiting Scholar, Mechanism-based cellular targeted imaging-guided therapy in oncology, Department of Pharmacology, Marshall University, School of Medicine, Huntington, W, 10/2003.

Invited Speaker, Mechanism Directed Generator-Produced Agents for Molecular Targeted Imaging, Institute of Biomedical Sciences Academia Sinica, Taipei, Taiwan, 3/2004.

Invited Speaker, Mechanism-based new PET Agents, 49th annual meeting of the Southwestern Chapter Society of Nuclear Medicine, Austin, TX, 4/2004.

Invited Speaker, Generator-Produced Agents for Molecular Targeted Imaging, at the Hypoxia Imaging Techniques Meeting (organized by National Cancer Institute), Arizona Golf Resort and Conference Center, Mesa, AZ, 4/2004.

Invited Speaker, Generator-Produced Agents for Molecular Targeted Imaging, 12th Annual Radiation Workshop (Advances in Imaging-guided Diagnosis and Therapy), Round Top, TX, 4/2004.

Invited Speaker, Imaging molecular signatures by PET and SPECT, The National Cancer Center, Tokyo, Japan, 5/2004.

Invited Speaker, Glycopeptide: compositions, methods of manufacturing and biomaterial applications, Department of Fine Chemicals, Taiwan HOPAX Chems, MFG, Co., Ltd., Kaohsiung, Taiwan, 10/2004.

Invited Speaker, Role of RDRC: from bench to clinic, Department of Nuclear Medicine, Yokohama University, Yokohama, Japan, 10/2004.

Invited Speaker, New Raiopharmaceuticals beyond FDG, 8th Asia Oceania Congress of Nuclear Medicine and Biology, Beijing, China, 10/2004.

Invited Speaker, Targeted imaging and drug delivery, Department of Fine Chemicals, Taiwan HOPAX Chems, MFG, Co., Ltd., Kaohsiung, Taiwan, 3/2005.

Invited Speaker, Targeted molecular imaging in oncology, Department of Radiology, Mackay Hospital, Taipei, Taiwan, 3/2005.

Invited Speaker, Bench to clinic development of PET Radiopharmaceuticals, at the Department of Nuclear Medicine, National Taiwan University Hospital, Taipei, Taiwan, 3/2005.

Invited Speaker, Tracer development and hybrid imaging, Philips Medical System at Joint Meeting of the Austrian, German and Swiss Societies of Nuclear Medicine ("DGN"), Basel, Switzerland, 4/2005.

Invited Speaker, ^{68}Ga-Tracer Development for PET/CT, Daiichi Radiopharmaceutical Laboratories, Tokyo, Japan, 5/2005.

Invited Speaker, RDRC, Phase 0 and Exploratory IND in Nuclear Medicine. Japanese Society of Nuclear Medicine Morals Meeting at Ruby Hole (Daimaru Department Store)Yokohama University, Yokohama, Japan, 5/2005.

Invited Speaker, Technologies for Tasrgeted Molecular Imaging, at the Department of Nuclear Medicine, National Cheng-Kung University Hospital, Tainan, Taiwan, 8/2005.

Invited Speaker, Novel Tracers beyond FDG in Molecular Imaging of Brain Disease , at the Department of Nuclear Medicine, National Taiwan University Hospital, Taipei, Taiwan, 10/4/2005 (organized by Dr. Kai-Yuan Tzen and GE Medical System).

Invited Speaker, Novel tracers beyond FDG for image-guided therapy applications., 2005 Small Animal Imaging Symposium, at the Department of Nuclear Medicine, Chang-Gunn University Hospital, Taipei, Taiwan, 11/12/2005 (organized by Dr. Dorothy Yen).

Invited Speaker, Current status of diagnostic and therapeutic radiopharmaceuticals' development in US, at the Institute of Nuclear Energy Research, Taipei, Taiwan, 11/11/2005.

Invited Speaker, Molecular Targeted Imaging and Therapy in Ovarian Cancer, at 1st Annual Meeting of Asian Gynecologic Oncology Group, Chang-Gunn University Hospital, Taipei, Taiwan, 11/15/2005 (organized by Drs. Dorothy Yen, Sherry C-H Lai).

BIBLIOGRAPHY

PUBLISHED ARTICLES IN REFERRED JOURNALS

1. Bourn WM, **Yang DJ,** Davisson JN. Effects of ketamine enantiomers on sound-induced convulsions in epilepsy prone rats. J Pharmacol Res Commun 1983;*15*(9): 815-824.

2. Hatfield GM, **Yang DJ,** Ferguson PW, Keller WJ. Identification of toxic alkaloids from the calcaratus subspecies of Lupinus Arbustus. J Agric Food Chem. 1985;*33*(5): 909-912.

3. **Yang DJ,** Davisson JN. Aminotetraline analogs of ketamine; synthesis and evaluation of hypnotic and locomotor properties in mice. J Med Chem. 1985;*28*(9): 1361-1365.

4. Rankin GO, **Yang DJ,** Cressey-Veneziano K, Brown PI. N-(3,5-Dichloro-phenyl)succinimide nephrotoxicity in the Fischer 344 rat. Toxicology Lett. 1985;*24*: 99-105.

5. Rankin GO, Cressey-Veneziano K, **Yang D J,** Wang RT, Brown, PI. In vivo and in vitro effects of azaconazole on renal function in the Fischer 344 rat. Toxicology 1985;*34*: 1-11.

6. Rankin GO, **Yang DJ,** Cressey-Veneziano K, Brown PI. Acute nephrotoxicity of N-phenyl and N-(monochlorophenyl) succinimides in Fischer 344 and Sprague-Dawley rats. Toxicology 1985;*34*: 299-308.

7. **Yang DJ,** Lahoda EP, Brown P I, Rankin GO. Structure nephrotoxicity relationships for para-substituted N-phenylsuccinimides in Fischer 344 and Sprague-Dawley rats. Toxicology 1985;*36*: 23-35.

8. **Yang DJ,** Lahoda EP, Brown P I, Rankin GO. Acute nephrotoxicity of isomeric N-(dichlorophenyl)succinimides in Fischer 344 and Sprague-Dawley rats. Fundam. Appl. Toxicol. 1985;*5*: 1119-1127.

9. **Yang DJ,** Rankin GO. Nephrotoxicity of antifungal agents. Adverse Drug Reactions and Acute Poisoning Rev. 1985;*1*: 37-49.

10. **Yang DJ,** Richmond CD, Teets VJ, Brown PI, Rankin GO. Effect of succinimide ring modification on N-(3,5-dichlorophenyl) succinimide-induced nephrotoxicity in Sprague-Dawley and Fischer 344 rats. Toxicology 1985;*37*: 65-77.

11. Rankin GO, **Yang DJ,** Cressey-Veneziano K, Casto S, Wang RT, Brown PI. In vivo and in vitro nephrotoxicity of aniline and its monochlorophenyl derivatives in the Fischer 344 rat. Toxicology 1986;*38*: 269-283.

12. Rankin GO, **Yang DJ,** Teets VJ, Lo HH, Brown PI. 3,5-Dichloroaniline-induced nephrotoxicity in the Sprague-Dawley rat. Toxicology Lett. 1986;*30*: 173-179.

13. Rankin GO, **Yang DJ,** Teets VJ, Brown PI. Deuterium isotope effect in acute N-(3,5-dichlorophenyl)-succinimide-induced nephrotoxicity. Life Sci. 1986;*39*: 1291-1299.

14. **Yang DJ,** Lahoda EP, Brown PI, Rankin GO. Acute N-(3,4,5-trichlorophenyl) succinimide-induced nephrotoxicity in Sprague-Dawley and Fischer 344 rats. Toxicology Lett. 1986;*31*: 219-228.

15. Rankin GO, **Yang DJ,** Teets V, Lo HH, Brown PI. The effect of probenecid on acute N-(3,5-dichlorophenyl)succinimide-induced nephrotoxicity in the Fischer 344 rat. Toxicology 1987;*44*: 181-192.

16. **Yang DJ,** Teets VJ, Bolton B, Brown PI, Rankin GO. Role of glutathione in acute N-(3,5-dichlorophenyl)succinimide-induced nephrotoxicity in Sprague-Dawley and Fischer 344 rats. Toxicology 1987;*45*: 25-44.

17. **Yang DJ,** Lo HH, Teets VJ, Brown PI, Rankin GO. Nephrotoxicity of N-(3,5-dihalophenyl) succinimides in Fischer 344 rats. J. Toxicol. Env Health 1987;*20*: 333-346.

18. **Yang DJ,** Brown PI, Lo HH, Teets VJ, Rankin GO. Structure-nephrotoxicity relationships for meta-substituted N-phenylsuccinimides. J Appl Toxicol. 1987;*7*(3): 153-160.

19. Rankin GO, **Yang DJ,** Richmond CD, Teets VJ, Wang RT, Brown PI. Effect of microsomal enzyme activity modulation on N-(3,5-dichlorophenyl)succinimide-induced nephrotoxicity. Toxicology 1987;*45*: 269-289, 1987.

20. Lo HH, Teets VJ, **Yang DJ,** Brown PI, Rankin GO. Acetone effects on N-(3,5-dichlorophenyl)succinimide-induced nephrotoxicity. Toxicology Lett. 1987;*38*: 161-168.

21. Valentovic MA, Elliott C, Teets VJ, Brown PI, **Yang DJ,** Rankin GO. Enzyme induction produced by N-(3,5-dichlorophenyl)succinimide in rats. Biochem Pharmacol. 1988;*37*(4): 768-770.

22. Rankin GO, Shih HC, **Yang DJ,** Teets VJ, Brown PI. Acute nephrotoxicity of N-(3,5-dichlorophenyl)succinimide metabolites in Fischer 344 rats. Toxicol Appl Pharmacol. 1988;*96*: 405-16.

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